STEREO CASSETTE DECK WITH DOLBY NR SYSTEM

MODEL AD-6400EE, UK

AIWA®

[SERVICE MANUAL]

ISO

Set using ISO screws

DATE OF ISSUE 26/8/1977

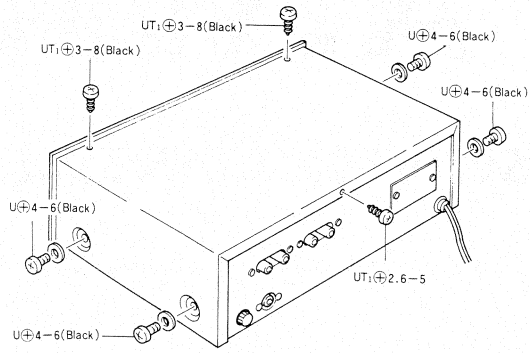
SPECIFICATIONS

Semiconductors:	3 IC's, 43 transistors, 23 diodes & 2 LED's
Power source:	AD-6400EE: AC 110~120 V/220~240 V (switchable) 50/60 Hz AD-6400UK: AC 120 V/240 V (switchable) 50/60 Hz
Power consumption:	10 W
Dimensions:	420(W) x 150(H) x 330(D) mm
Weight:	7.5 kg
Track system:	4-track 2-channel stereo
Tape speed:	4.76 cm/sec. ±1%
Wow & flutter:	0.1% (According to DIN 45 500 Blatt 8)
Automatic shut-off action time:	4 ±1 sec.
Pinch roller pressure:	375 ±30 g
Take-up torque:	50 ±10 g-cm
FF & rewind torque:	125 ±25 g-cm
FF & rewind time:	Less than 95 sec. (w/C-60 cassette)
Playback output: (TTA-161)	1.05 ±0.05 V (LINE/DIN)
Playback noise: (Un-Weighted)	Less than 4.5 mV (LH, DOLBY ON) Less than 3.0 mV (Fe-Cr, CrO_2, DOLBY. ON)
Rec./pb output: (400 Hz 0 VU)	0 VU ±0.5 dB (LINE/DIN)
Rec./pb distortion: (400 Hz 0 VU)	Less than 2.0% (LH) Less than 1.5% (Fe-Cr) Less than 3.0% (CrO_2)
Rec./pb S/N: (400 Hz 0 VU) (Un-Weighted)	More than 43/45 dB (LH, DOLBY OFF/ON) More than 45/48 dB (Fe-Cr, DOLBY OFF/ON) More than 45/48 dB (CrO_2, DOLBY OFF/ON)
Channel separation:	More than 28 dB (at 1 kHz 0 VU)
Cross talk:	More than 65 dB (at 1 kHz 0 VU)
Erasing ratio:	More than 60 dB (400 Hz +10 VU)
Bias frequency:	100 kHz ±10 kHz
Frequency response:	LH tape, 20~15 kHz (−10 dB) 30~13 kHz (±3 dB) Fe-Cr tape, 20~17 kHz (−10 dB) 30~15 kHz (±3 dB) CrO_2 tape, 20~17 kHz (−10 dB) 30~15 kHz (±3 dB) (at Dolby off, Rec./pb)
Motor:	38 pulse FG servo motor
Head:	Ferrite guard head (FGH)
Input:	MIC: Max. input sensitivity 0.3mV (200Ω ~ 10 kΩ suitable) LINE IN: Max. input sensitivity 50 mV (More than 50 kΩ) DIN: Max. input sensitivity 0.1 mV/kΩ (3 kΩ)
	LINE OUT: Standard output level 0.775 V (0 VU) Optimum load impedance more than 50 kΩ DIN: Standard output level 0.775 V (0 VU) Optimum load impedance more than 50 kΩ PHONES: 3.4 mV (+3 VU) Load impedance 8 Ω

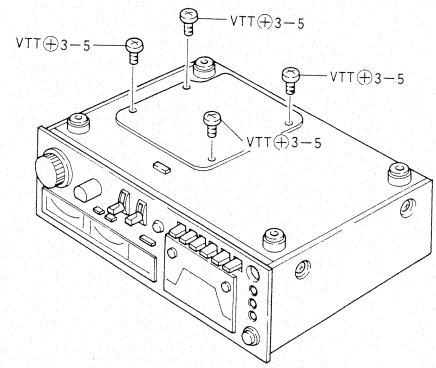
- Specifications and external appearance are subject to change without notice due to product improvement.
- Dolby Noise Reduction System is licensed from Dolby Laboratories Incorporated.
- The name "Dolby" and the "Double D" symbol are trademarks of Dolby Laboratories Incorporated.

DISASSEMBLY INSTRUCTIONS

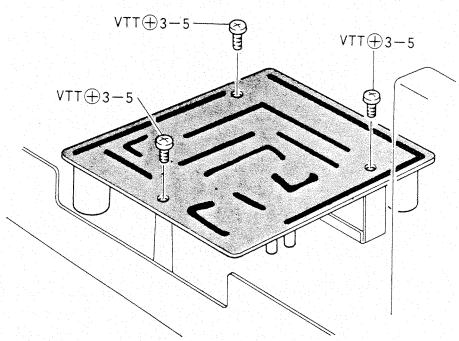
To Remove Cabinet
Remove 7 screws.



To Remove Bottom Cover
Remove 4 screws.

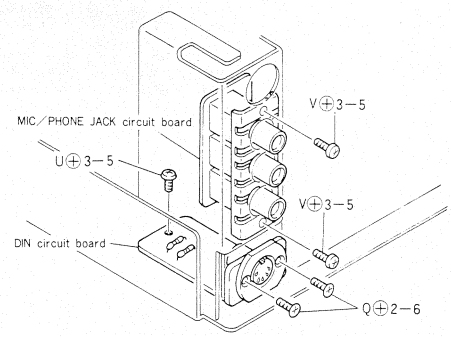


To Remove Power Circuit Board
Remove 3 screws.

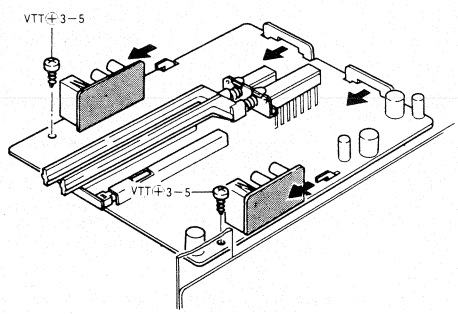


To Remove MIC/PHONE Jack Circuit Board
Remove 2 screws.

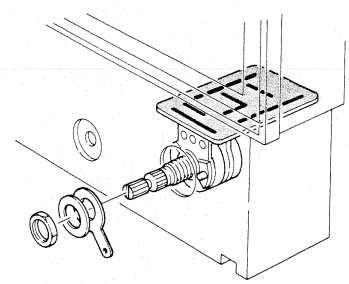
To Remove DIN Circuit Board
Remove 3 screws.



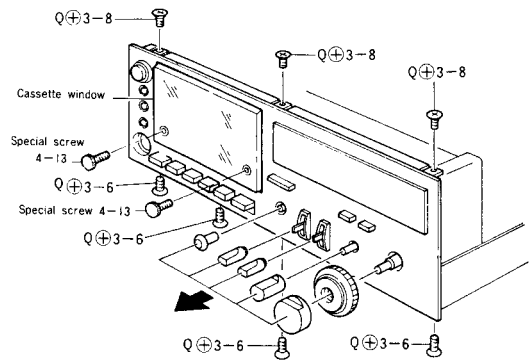
To Remove Main Circuit Board
Remove 2 screws.



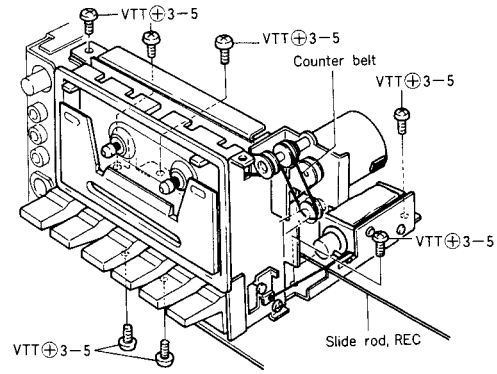
To Remove Rec. Volume Circuit Board
Remove mounting nut.



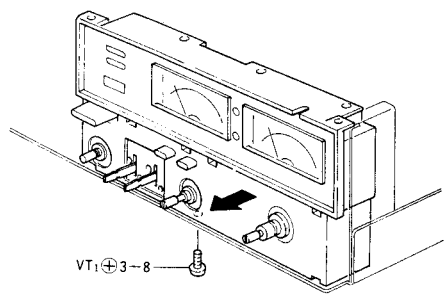
To Remove Front Panel
Pull out the 6 knobs and remove 9 screws.



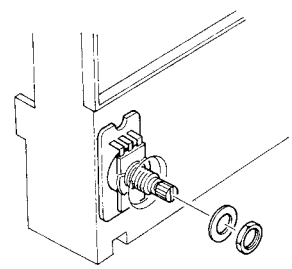
To Remove Mechanism
1) Remove counter belt and rec. slide rod.
2) Remove 7 screws.



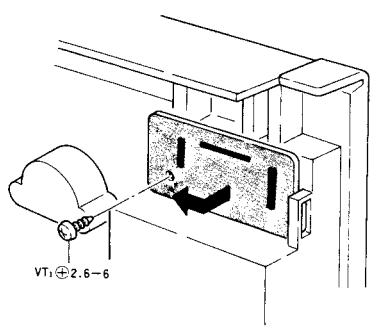
To Remove Front Chassis
Remove mounting screw.



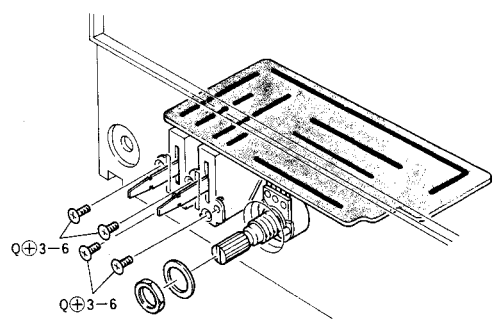
To Remove LH Bias Volume Circuit Board
Remove mounting nut.



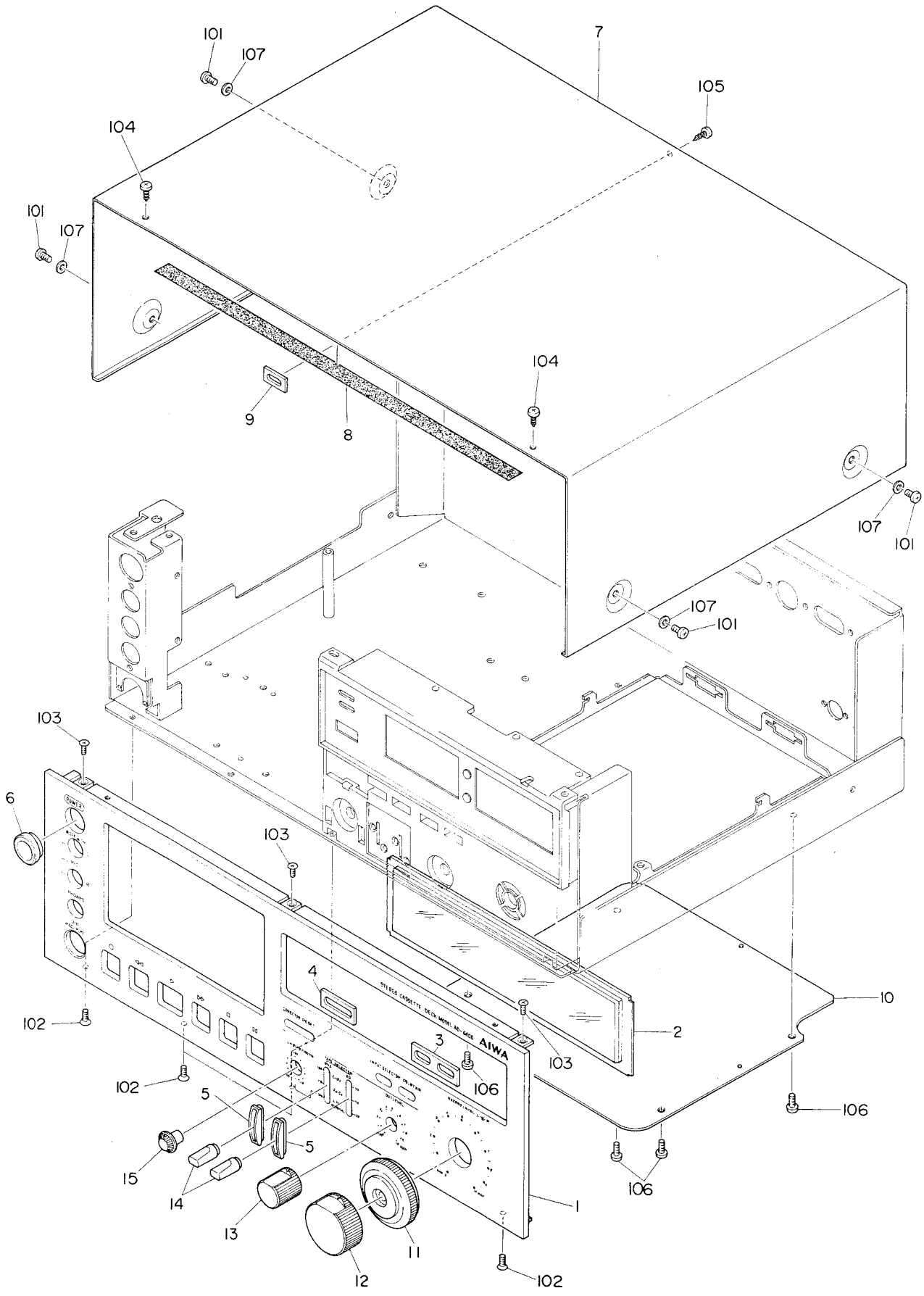
To Remove Lamp Circuit Board
Remove mounting screw.



To Remove Eq./Switch Circuit Board
Remove 4 screws and nut.



EXPLODED VIEW–1



PARTS LIST

MECHANICAL PARTS

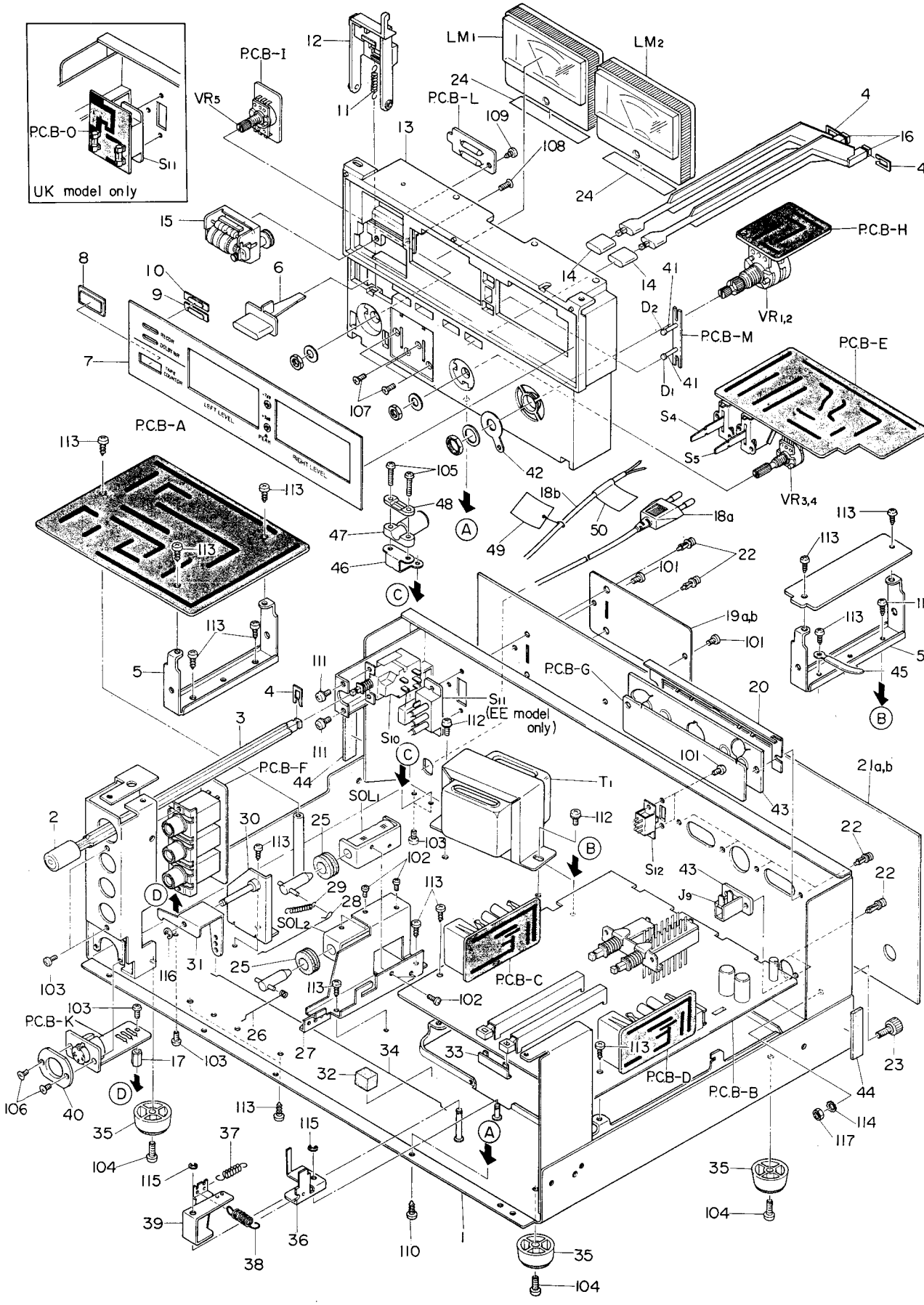
■ * Mark in this part list shows exclusive part (which is used) for only Model AD-6400.

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1~5	09-047-086-01		**Panel Assembly**		
1-1	82-399-003-01		Panel, Front	*	1
1-2	82-397-018-01		Window, Meter	AD-6550	1
1-3	82-397-250-01		Cover, Selector button	AD-6550	2
1-4	82-397-246-01		Cover, Reset button	AD-6550	1
1-5	82-301-002-01		Guide, Lever switch		2
1-6	82-397-027-01		Ring, AC switch button	AD-6550	1
1-7	82-397-004-01		Cabinet, Steel sach	AD-6550	1
1-8	82-397-245-01		Himeron cloth, Cabinet	AD-6550	1
1-9	82-380-439-01		Spacer, Back panel	AD-6500	1
1-10	83-399-029-01		Bottom lid	*	1
1-11	82-397-021-01		Knob B ass'y, RECORD LEVEL	AD-6550	1
1-12	82-397-019-01		Knob A ass'y, RECORD LEVEL	AD-6550	1
1-13	82-397-023-01		Knob ass'y, OUTPUT LEVEL	AD-6550	1
1-14	82-399-024-01		Knob ass'y, TAPE SELECTOR	*	2
1-15	82-397-062-01		Knob, LH BIAS FINE	AD-6550	1

Ref. No.	Part No.	Description	Q'ty
1-101	87-257-169-01	U + 4-6(Black)	4
1-102	87-233-094-01	Q + 3-6	4
1-103	87-233-095-01	Q + 3-8	3
1-104	87-326-095-01	UT_1 + 3-8(Black)	2

Ref. No.	Part No.	Description	Q'ty
1-105	87-327-074-01	UT_2 +2.6-8(Black)	1
1-106	87-081-481-01	VTT + 3-5	4
1-107	87-081-499-01	PW4-8-0.25	4

EXPLODED VIEW–2

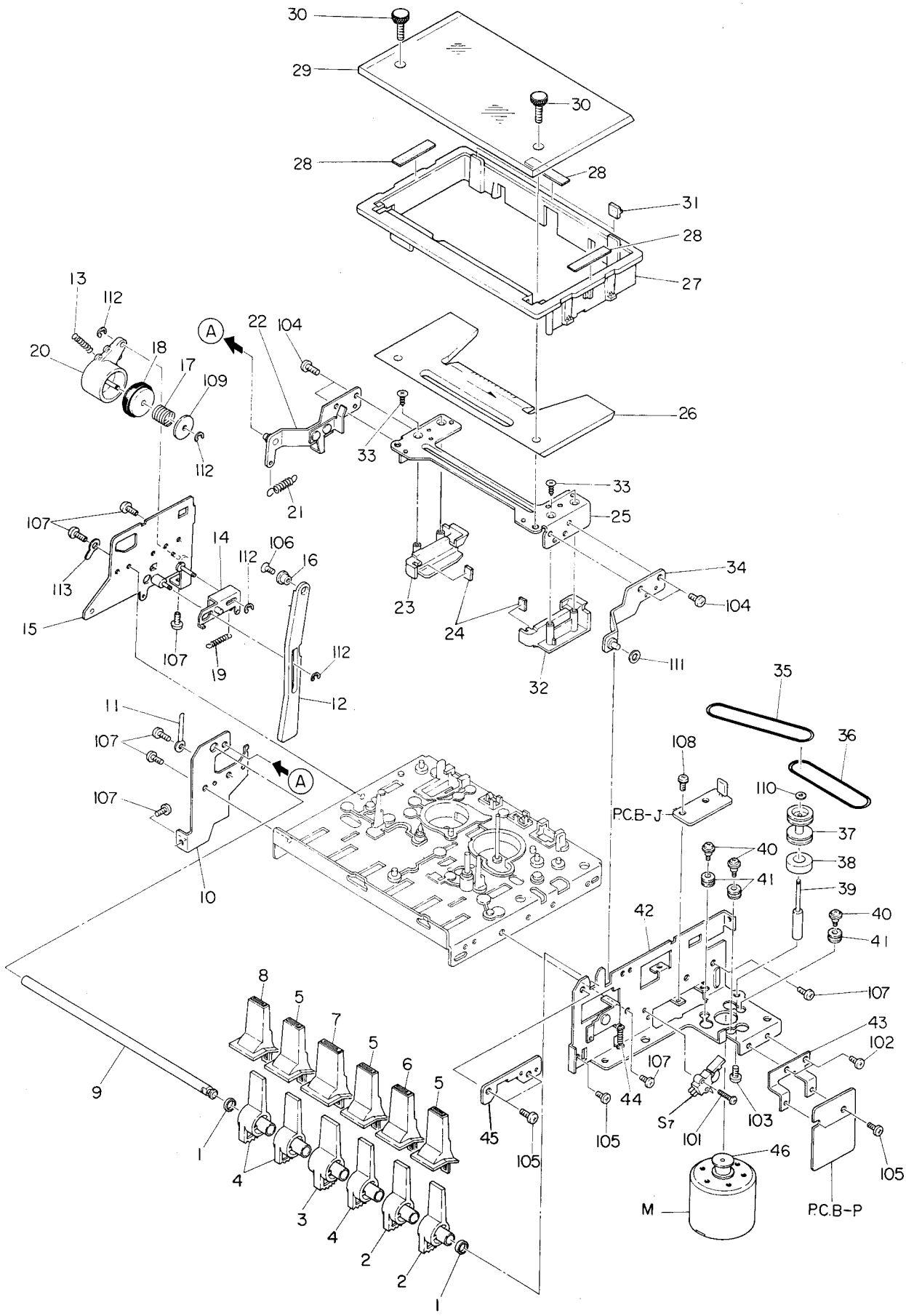


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-399-217-01		Amp. chassis ass'y	*	1
2-2	82-399-025-01		AC switch button ass'y	*	1
2-3	82-385-382-01		Rod, P	AD-6300	1
2-4	82-385-383-01		Stopper, Rod	AD-6300	3
2-5	82-397-324-01		Holder, Circuit board	AD-6550	2
2-6	82-397-028-01		Reset button	AD-6550	1
2-7	82-397-017-01		Name plate, Meter	AD-6550	1
2-8	82-397-030-01		Window, Counter	AD-6550	1
2-9	82-397-031-01		Lens, DOLBY	AD-6550	1
2-10	82-397-032-01		Lens, REC	AD-6550	1
2-11	82-397-316-01		Spring, Reset	AD-6550	1
2-12	82-397-239-01		Lever, Reset button	AD-6550	1
2-13	82-397-210-01		Front chassis	AD-6550	1
2-14	82-397-029-01		Selector button	AD-6550	2
2-15	87-040-092-01		Counter		1
2-16	82-397-292-01		Shaft, Selector	AD-6550	2
2-17	82-397-330-01		Shaft, DIN circuit	AD-6550	1
2-18a	87-034-835-01		AC cord (EE model only)		1
2-18b	87-034-848-01		AC cord (UK model only)		1
2-19a	82-399-011-01		Name plate, Spec. (EE model only)	*	1
2-19b	82-399-012-01		Name plate, Spec. (UK model only)	*	1
2-20	82-386-629-01		Shield plate, Jack		1
2-21a	82-397-008-01		Jack plate (EE model only)	AD-6550	1
2-21b	82-397-009-01		Jack plate (UK model only)	AD-6550	1
2-22	87-085-102-01		Nylon rivet		8
2-23	87-033-088-01		Earth terminal		1
2-24	82-399-213-01		Spacer, Meter	*	2
2-25	84-184-242-01		Rubber, Sound-proof		2
2-26	82-397-318-01		Slide rod, PAUSE	AD-6550	1
2-27	82-397-232-01		Holder, Solenoid	AD-6550	1
2-28	82-397-319-01		Slide rod, Auto A	AD-6550	1
2-29	82-272-424-01		Spring, Brake		1
2-30	82-397-229-01		REC holder ass'y	AD-6550	1
2-31	82-397-243-01		REC lever A	AD-6550	1
2-32	81-301-040-01		Cushion, Circuit board		1
2-33	82-397-334-01		Auxiliary plate	AD-6550	1
2-34	82-397-317-01		Slide rod, REC	AD-6550	1
2-35	87-085-144-01		Leg		4
2-36	82-397-248-01		REC lever C	AD-6550	1
2-37	82-397-310-01		Spring, REC	AD-6550	1
2-38	82-397-335-01		Spring, REC-C	AD-6550	1
2-39	82-397-241-01		REC lever B	AD-6550	1
2-40	82-397-054-01		Cover, DIN	AD-6550	1
2-41	82-397-235-01		Collar, LED	AD-6550	2
2-42	82-397-694-01		Earth lug	AD-6550	1
2-43	82-387-278-01		Holder, Jack		1
2-44	82-380-457-01		Stopper rubber, Up-plate		2
2-45	87-038-039-01		Wire binder	*	2
2-46	82-397-244-01		Holder, AC cord	AD-6550	1
2-47	87-085-094-01		Holder A, AC cord		1
2-48	87-085-095-01		Holder B, AC cord		1
2-49	87-056-008-01		Label, AC cord (UK model only)		1
2-50	87-056-014-01		Tag, Main voltage (UK model only)		1

Ref. No.	Part No.	Description	Q'ty
2-101	87-257-033-01	U + 2-4(Black)	4
2-102	87-253-071-01	U + 2.6-4	4
2-103	87-253-093-01	U + 3-5	6
2-104	87-253-170-01	U + 4-8	4
2-105	87-261-101-01	V + 3-18	2
2-106	87-233-035-01	Q + 2-6	2
2-107	87-233-094-01	Q + 3-6	4
2-108	87-233-095-01	Q + 3-8	2
2-109	87-351-073-01	VT_1 + 2.6-6	1

Ref. No.	Part No.	Description	Q'ty
2-110	87-341-095-01	UT_1 + 3-8	1
2-111	87-480-093-01	VS + 3-5	2
2-112	87-480-169-01	VS + 4-6	2
2-113	87-081-481-01	VTT + 3-5	16
2-114	87-433-906-01	WTIE4-10	1
2-115	87-441-006-01	STE-2.3	2
2-116	87-441-009-01	STE-3	1
2-117	87-391-024-11	N4	1

EXPLODED VIEW–3

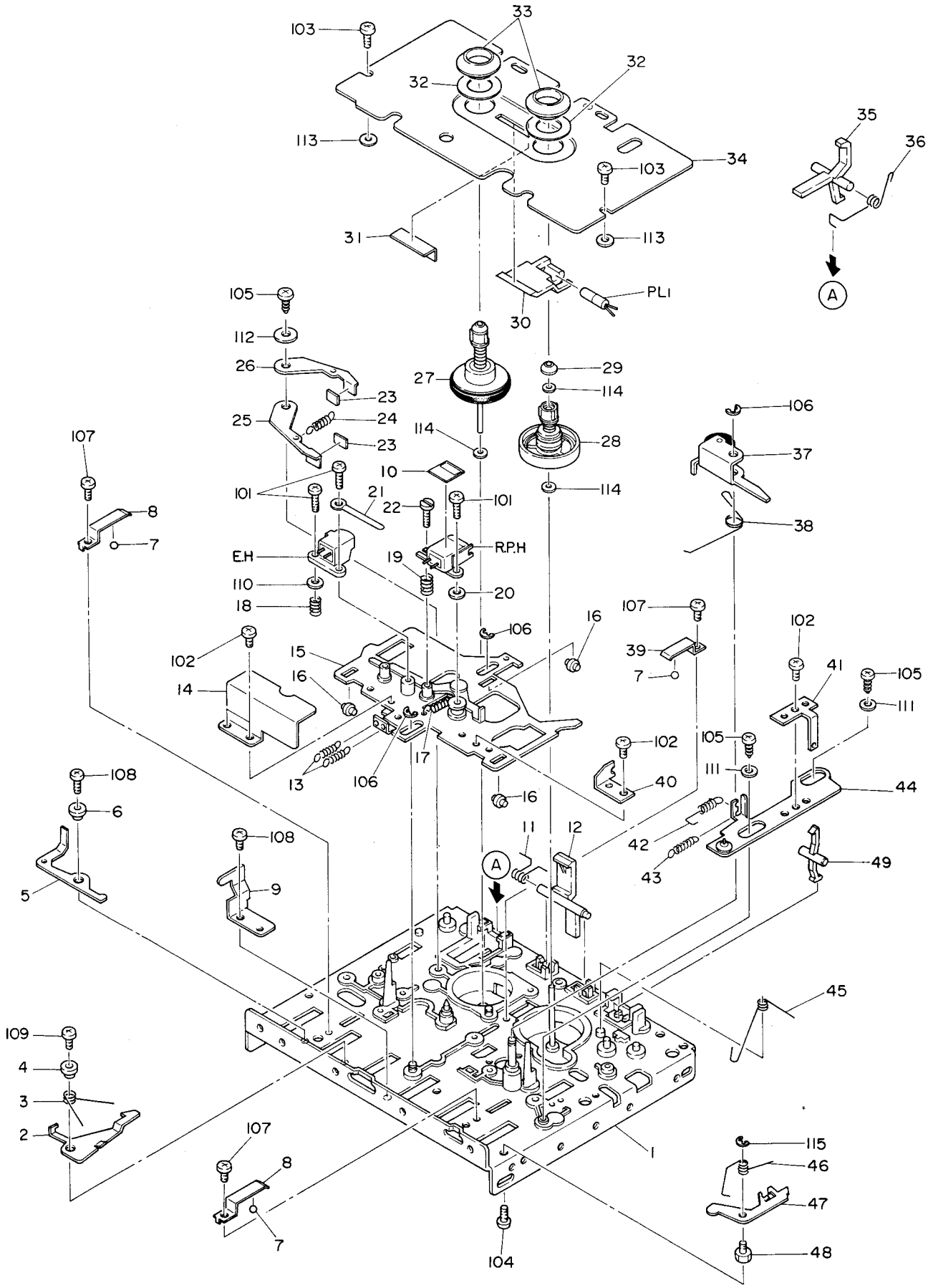


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
3-1	82-397-279-01		Collar, Push key	AD-6550	2	
3-2	82-397-276-01		Push-key lever, REW	AD-6550	2	
3-3	82-397-274-01		Push-key lever, PLAY	AD-6550	1	
3-4	82-397-275-01		Push-key lever, STOP	AD-6550	3	
3-5	82-397-046-01		Push-key lever, FF	AD-6550	3	
3-6	82-397-048-01		Push-key, STOP	AD-6550	1	
3-7	82-397-045-01		Push-key, PLAY	AD-6550	1	
3-8	82-397-047-01		Push-key, REC	AD-6550	1	
3-9	82-397-278-01		Shaft, Push-key	AD-6550	1	
3-10	82-397-252-01		Holder, Push-key	AD-6550	1	
3-11	87-038-039-01		Wire binder		1	
3-12	82-397-280-01		Lock plate, Cassette lid	AD-6550	1	
3-13	82-397-303-01		Spring E, Oil drum	AD-6550	1	
3-14	82-397-261-01		Lock lever ass'y	AD-6550	1	
3-15	82-399-203-01		Frame chassis L ass'y	*	1	
3-16	82-397-281-01		Flange collar, Cassette lid	AD-6550	1	
3-17	82-397-302-01		Spring C, Oil drum	AD-6550	1	
3-18	82-397-271-01		Idler lever ass'y, Oil	AD-6550	1	
3-19	82-397-301-01		Drum B ass'y, Oil	AD-6550	1	
3-20	82-397-265-01		Drum ass'y, Oil	AD-6550	1	
3-21	82-399-215-01		Spring, Cassette lid arm	*	1	
3-22	82-399-202-01		Cassette lid lever L ass'y	*	1	
23~33	09-047-087-01		**Cassette lid ass'y**			
3-23	82-397-043-01		Cassette case L	AD-6550	1	
3-24	82-397-312-01		G cushion, Cassette case	AD-6550	2	
3-25	82-397-225-01		Cassette case ass'y	AD-6550	1	
3-26	82-399-021-01		Cassette lid ass'y	*	1	
3-27	82-397-044-01		Blinder	AD-6550	1	
3-28	82-397-313-01		G cushion, Blinder	AD-6550	3	
3-29	82-397-036-01		Cassette window	AD-6550	1	
3-30	82-397-040-01		Special screw, 4mmϕ x 13mm	AD-6550	2	
3-31	82-399-028-01		Cushion, Cassette lid	*	2	
3-32	82-397-042-01		Cassette case R	AD-6550	1	
3-33	87-392-036-01		QT_1 2-8 (Black)	AD-6550	4	
3-34	82-397-264-01		Cassette lid lever R ass'y	AD-6550	1	
3-35	82-397-325-01		Rubber belt C	AD-6550	1	
3-36	82-397-314-01		Rubber belt A	AD-6550	1	
3-37	82-397-228-01		Relay pulley	AD-6550	1	
3-38	82-379-617-01		Ring magnet	AD-1800	1	
3-39	82-397-247-01		Shaft ass'y, Relay	AD-6550	1	
3-40	87-081-483-01		Motor screw		3	
3-41	87-087-029-01		Rubber cushion		3	
3-42	82-397-211-01		Frame chassis R ass'y	AD-6550	1	
3-43	82-397-647-01		Holder, Motor circuit board	AD-6550	1	
3-44	82-272-424-01		Brake spring		1	
3-45	82-397-270-01		Shaft, Stopper C	AD-6550	1	
3-46	82-399-216-01		Motor pulley ass'y	*	1	

Ref. No.	Part No.	Description	Q'ty	
3-101	87-253-036-01	U + 2-8	2	
3-102	87-253-071-01	U + 2.6-4	2	
3-103	87-253-072-01	U + 2.6-5	1	
3-104	87-257-073-01	U + 2.6-6(Black)	4	
3-105	87-253-093-01	U + 3-5	5	
3-106	87-233-074-01	Q + 2.6-8	1	

Ref. No.	Part No.	Description	Q'ty	
3-107	87-081-481-01	VTT + 3-5	8	
3-108	87-480-072-01	VS + 2.6-5	2	
3-109	87-410-318-01	W3-13-0.8	2	
3-110	87-081-489-01	PW1.7-3.5-0.25	1	
3-111	87-081-499-01	PW4-8-0.25	1	
3-112	87-441-006-01	STE-2.3	6	
3-113	87-450-414-01	LB-4	1	

EXPLODED VIEW–4

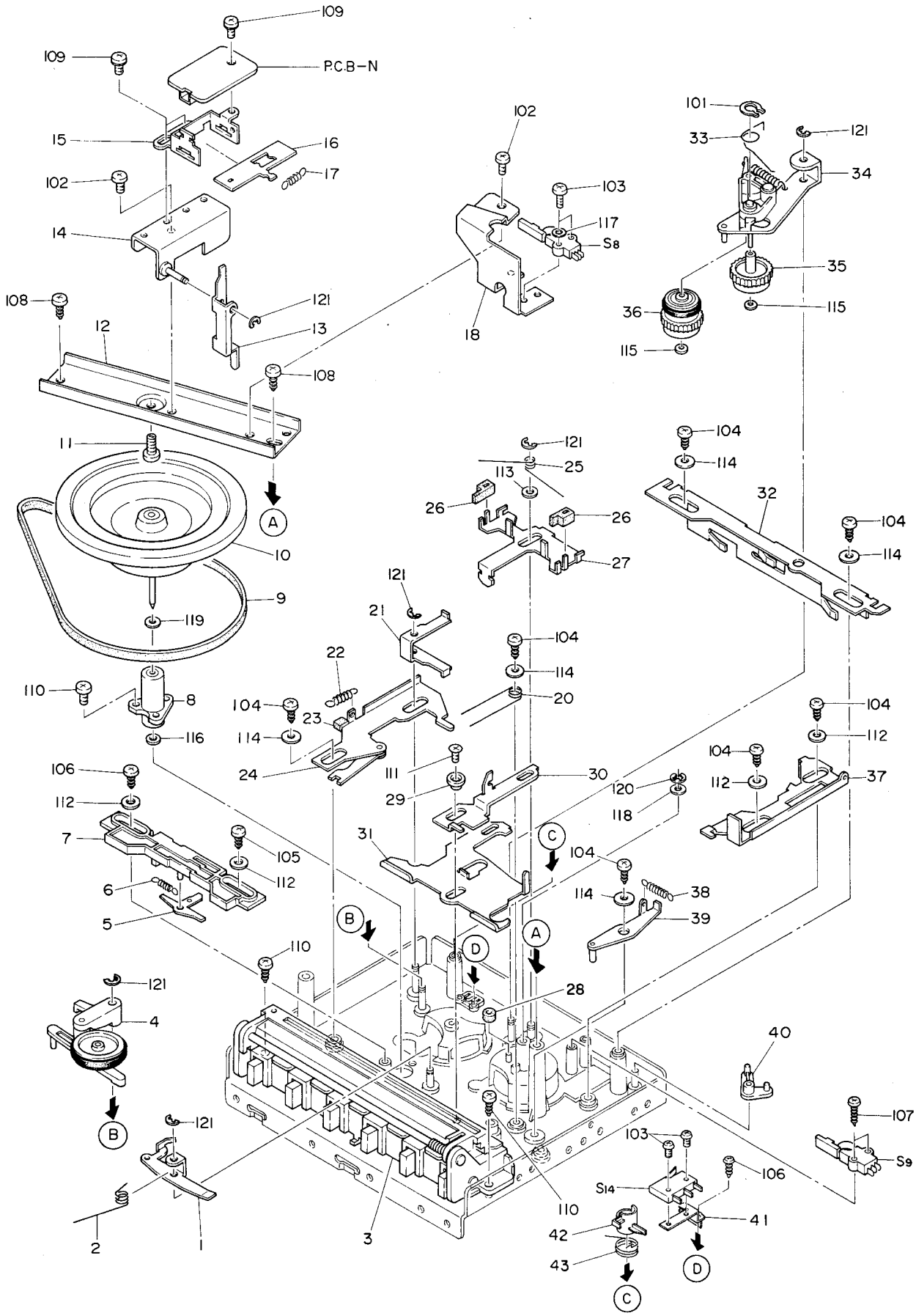


Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
4-1	82-392-202-01		Outsert chassis ass'y	AD-6550	1
4-2	82-397-320-01		Stopper, Actuating chassis	AD-6550	1
4-3	82-397-299-01		Spring, Stopper	AD-6550	1
4-4	82-397-323-01		Flange collar B	AD-6550	1
4-5	82-397-321-01		Lever, Actuating	AD-6550	1
4-6	82-397-322-01		Flange collar A	AD-6550	1
4-7	82-215-341-01		Steel ball, 3/32		3
4-8	82-392-317-01		Spring, Actuating chassis B	AD-6550	2
4-9	82-397-289-01		Stopper B, Push-key shaft	AD-6550	1
4-10	82-372-931-01		Label, Head	AD-1500	1
4-11	82-397-297-01		Spring, Cassette holder	AD-6550	1
4-12	82-397-286-01		Lever, Cassette holder	AD-6550	1
4-13	82-392-342-01		Return spring	AD-6550	2
4-14	82-397-291-01		Shield plate, Head	AD-6550	1
4-15	82-392-218-01		Actuating chassis ass'y	AD-6550	1
4-16	82-392-318-01		Roller, Actuating chassis	AD-6550	3
4-17	82-392-343-01		Spring, Actuating chassis	AD-6550	1
4-18	82-392-357-01		Spring, Erasing head	AD-6550	1
4-19	82-392-347-01		Spring, Rec/pb head	AD-6550	1
4-20	82-392-354-01		G cushion, Head	AD-6550	1
4-21	82-357-487-01		Binder, Lead wire		1
4-22	82-439-373-01		Shaft, Rec/pb adjusting	TPR-300	1
4-23	82-392-350-01		Felt, Back tension	AD-6550	2
4-24	82-392-340-01		Spring, Back tension	AD-6550	1
4-25	82-392-359-01		Lever, Back tension C	AD-6550	1
4-26	82-392-360-01		Lever, Back tension D	AD-6550	1
4-27	82-399-211-01		Supply reel platform ass'y	*	1
4-28	82-392-283-01		Take-up reel platform ass'y	AD-6550	1
4-29	82-392-352-01		Cap, Take-up reel platform	AD-6550	1
4-30	82-397-041-01		Guide, Light	AD-6550	1
4-31	82-397-345-01		Blinder, Light	AD-6550	1
4-32	82-397-290-01		Adhesive sheet, Ring	AD-6550	2
4-33	82-397-030-01		Ring, Reel platform	AD-6550	2
4-34	82-397-064-01		Cassette plate	AD-6550	1
4-35	82-397-287-01		Lever, Record-blocking	AD-6550	1
4-36	82-397-298-01		Spring, Record-blocking lever	AD-6550	1
4-37	82-392-363-01		Pinch roller ass'y	AD-6550	1
4-38	82-392-334-01		Spring, Pinch lever	AD-6550	1
4-39	82-392-316-01		Spring, Actuating chassis A	AD-6550	1
4-40	82-392-367-01		Plate, PSP	AD-6550	1
4-41	82-397-233-01		Auxiliary plate, pause	AD-6550	1
4-42	82-392-375-01		Spring, Pause B	AD-6550	1
4-43	82-392-374-01		Spring, Pause A	AD-6550	1
4-44	82-392-280-01		Pause slide plate ass'y	AD-6550	1
4-45	82-392-333-01		Spring, Take-up	AD-6550	1
4-46	82-392-335-01		Spring, Lock plate	AD-6550	1
4-47	82-392-213-01		Lock plate	AD-6550	1
4-48	82-392-211-01		Shaft, Lock plate	AD-6550	1
4-49	82-397-288-01		Lever, CrO_2 selecting		1

Ref. No.	Part No.	Description	Q'ty
4-101	87-253-034-01	V + 2-5	3
4-102	87-263-071-01	V + 2.6-4	4
4-103	87-253-031-01	U + 2-2	2
4-104	87-253-032-01	U + 2-3	1
4-105	87-351-074-01	UT_1 + 2.6-8	3
4-106	87-441-006-01	STE-2.3	3
4-107	87-081-501-01	VTT + 2.6-4	3
4-108	87-081-480-01	VTT + 2.6-5	2

Ref. No.	Part No.	Description	Q'ty
4-109	87-081-503-01	VTT + 2.6-8	1
4-110	87-410-303-01	W2-4.3-0.23	1
4-111	87-410-311-01	W2.6-7.5-0.5	2
4-112	87-410-317-01	W3-10-0.8	1
4-113	87-081-023-01	FW2.6-7.5-0.5	2
4-114	87-081-319-01	TW2.3-8-0.2	3
4-115	87-441-005-01	STE-2	1

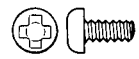
EXPLODED VIEW–5



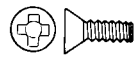
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
5-1	82-392-302-01		REV. auxiliary lever ass'y	AD-6550	1
5-2	82-392-331-01		Spring, REV. auxiliary lever	AD-6550	1
5-3	82-392-235-01		Push-switch proper ass'y	AD-6550	1
5-4	82-392-262-01		Take-up idler ass'y	AD-6550	1
5-5	82-392-361-01		Lever, Main drive B	AD-6550	1
5-6	82-392-346-01		Spring, FF	AD-6550	1
5-7	82-392-313-01		Slide plate, FR	AD-6550	1
5-8	82-392-256-01		Shaft bearing ass'y	AD-6550	1
5-9	82-392-319-01		Belt, Main	AD-6550	1
5-10	82-392-371-01		Flywheel ass'y	AD-6550	1
5-11	82-331-107-01		Screw for thrust		1
5-12	82-392-321-01		Plate, Flywheel	AD-6550	1
5-13	82-397-240-01		Lever, MT switch	AD-6550	1
5-14	82-397-236-01		MT switch holder ass'y	AD-6550	1
5-15	82-374-248-01		Switch holder C	AD-6550	1
5-16	82-397-242-01		Slider, MT switch	AD-1500	1
5-17	82-372-417-01		Spring B, MT switch slider	AD-6550	1
5-18	82-397-308-01		Holder, Memory switch	AD-6550	1
5-19	82-397-350-01		T spring, CrO_2	AD-6550	1
5-20	82-392-337-01		Spring, Center shifter	AD-6550	1
5-21	82-397 283-01		Eject lever B	AD-6550	1
5-22	82-397-300-01		Spring, Eject lever	AD-6550	1
5-23	82-397-307-01		G cushion, Eject lever	AD-6550	1
5-24	82-397-253-01		Eject lever A ass'y	AD-6550	1
5-25	82-392-332-01		Spring, Brake		1
5-26	82-439-260-01		Brake shoe	TPR-300	2
5-27	82-392-320-01		Slide plate, Brake	AD-6550	1
5-28	82-392-373-01		G cussion, FR	AD-6550	1
5-29	82-392-353-01		Collar, Rewind shaft	AD-6550	1
5-30	82-392-326-01		Slide plate, REW	AD-6550	1
5-31	82-392-323-01		Slide plate, Brake S	AD-6550	1
5-32	82-397-285-01		Slide plate, Eject	AD-6550	1
5-33	82-392-330-01		Spring, FR lever	AD-6550	1
5-34	82-392-295-01		FR lever ass'y	AD-6550	1
5-35	82-392-315-01		Gear, REW	AD-6550	1
5-36	82-392-305-01		FF pulley ass'y	AD-6550	1
5-37	82-397-282-01		Slide plate, REC	AD-6550	1
5-38	82-392-345-01		Spring, REC lock	AD-6550	1
5-39	82-392-274-01		REC lock lever ass'y	AD-6550	1
5-40	82-397-284-01		Eject lever C	AD-6550	1
5-41	82-397-346-01		Holder, CrO_2 switch	AD-6550	1
5-42	82-397-347-01		Lever, CrO_2	AD-6550	1

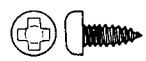
Ref. No.	Part No.	Description	Q'ty
5-101	87-442-005-01	STP-5	1
5-102	87-253-093-11	V + 3-5	2
5-103	87-253-036-01	U + 2-8	5
5-104	87-351-074-01	VT_1 + 2.6-8	7
5-105	87-351-075-01	VT_1 + 2.6-10	2
5-106	87-341-034-01	UT_1 + 2-5	2
5-107	87-341-037-01	UT_1 + 2-10	2
5-108	87-341-095-01	UT_1 + 3-8	2
5-109	87-480-072-01	VS + 2.6-5	3
5-110	87-081-480-01	VTT + 2.6-5	5
5-111	87-081-523-01	QTT + 2.6-8	1

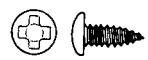
Ref. No.	Part No.	Description	Q'ty
5-112	87-810-311-01	W2.6-7.5-0.5	4
5-113	87-410-312-01	W3-6-0.3	1
5-114	87-410-317-01	W3-10-0.8	5
5-115	87-081-489-01	PW1.7-3.5-0.25	3
5-116	82-416-358-01	PW2.5-6	1
5-117	87-081-197-01	FW2.6-8-1.0	1
5-118	87-081-319-01	TW2.3-8-0.2	1
5-119	87-081-098-01	NW2.6-7-0.3	1
5-120	87-441-004-01	STE-1.5	1
5-121	87-441-006-01	STE-2.3	5

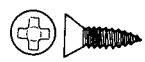
V: Pan head screw 

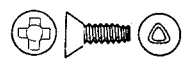
U: Binding head screw

Q: Flat countersunk head screw 

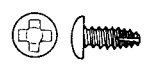
VT1: Pan head tapping screw 

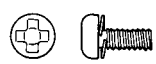
UT1: Binding head tapping screw 

QT1: Flat countersunk head tapping screw 

QTT: Flat countersunk head tap-tight screw 

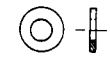
VTT: Pan head tap-tight screw

UT2: Binding head tapping screw 

VS: Pan head screw with spring washer 

STE: E ring

STP: Powerful stop ring

W: Washer 

FW: Fiber washer

NW: Nylon washer

PW: Poly-slider washer

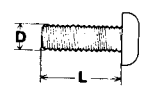
TW: Tefron washer

WTIE: Crown washer

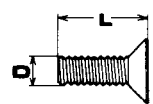
SS: Set screw

N: Nut

Example:



V + 3 – 6
- Length in mm
- Diameter in mm
- Type of Slot
- Type of Head



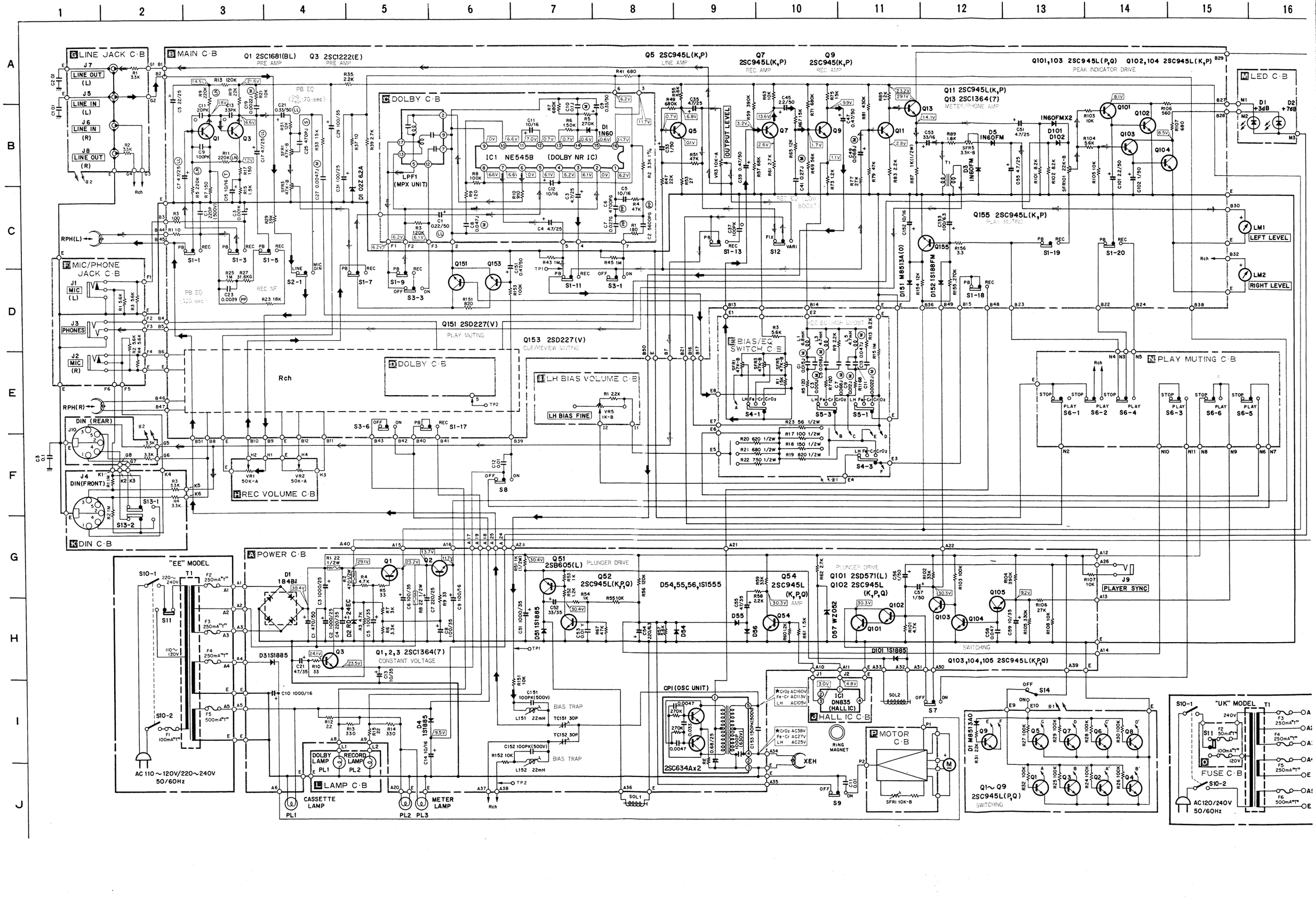
Q + 3 – 6
- Length in mm
- Diameter in mm
- Type of Slot
- Type of Head

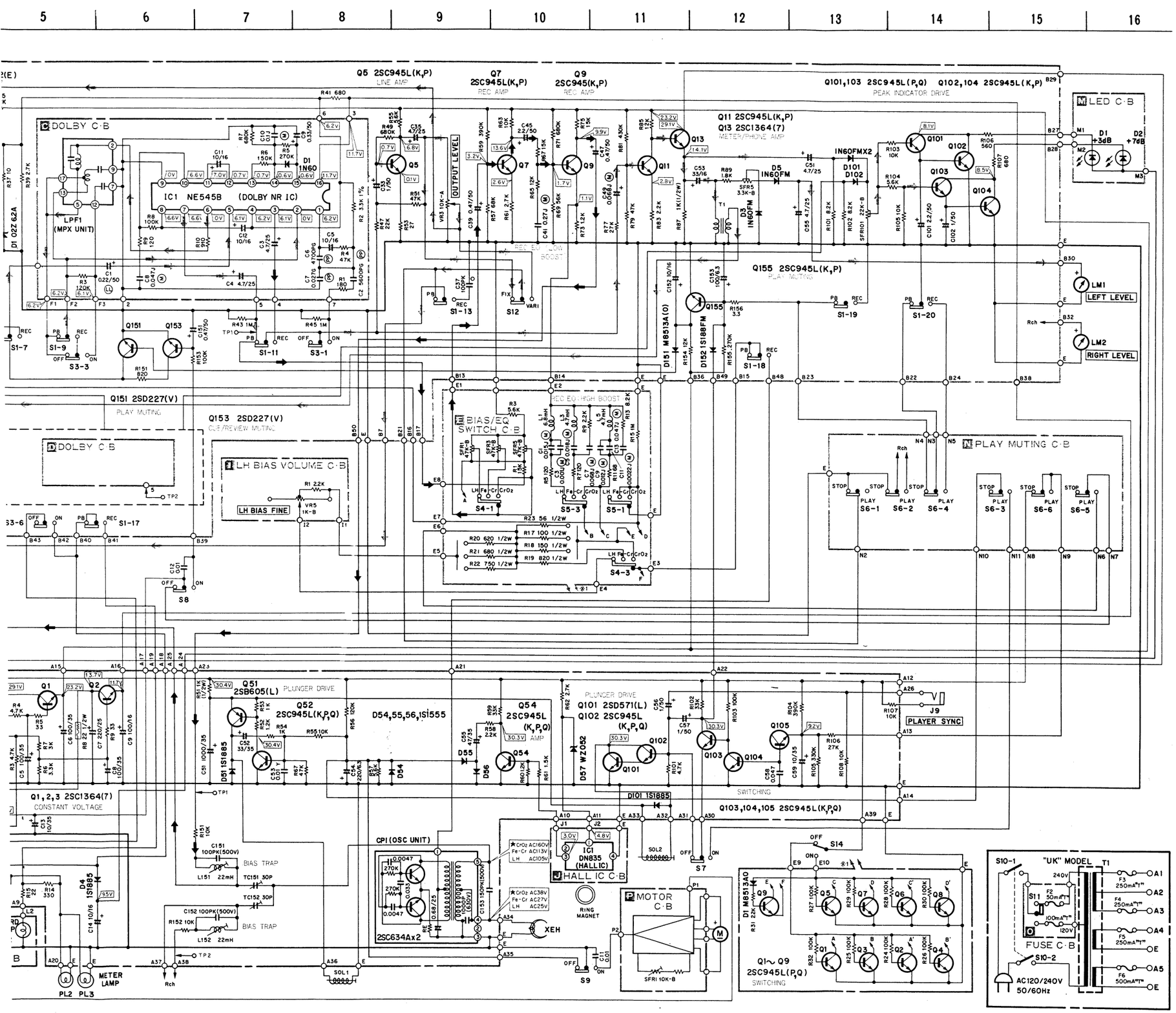
ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1	82-399-853-01		Printed indiv., Packing	*	1	
2	82-397-856-01		Cushion L, Printed indiv.	AD-6550	1	
3	82-397-857-01		Cushion R, Printed indiv.	AD-6550	1	
4	86-056-500-01		Curl stopper		2	
5	87-051-146-01		Poly-vinyl sack (for case)		1	
6	87-051-175-01		Poly-tube A (for instruction)		1	
7	87-051-131-01		Poly-vinyl sack (for AC cord)		1	
8	87-058-024-01		Head cleaning pole		1	
9	86-925-002-01		Connection cord, CW-115K		1	
10	87-058-023-01		Cord binder		1	
11	87-056-009-01		Distributors list		1	
12	80-291-645-01		Tape cassette, DMC-130A		1	
13a	82-399-904-01		Instructions booklet (EE model only)	*	1	
13b	82-399-905-01		Instructions booklet (UK model only)	*	1	

AIWA

SCHEMATIC DIAGRAM



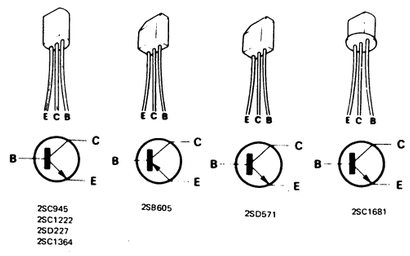


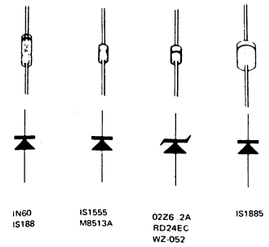
NOTES:

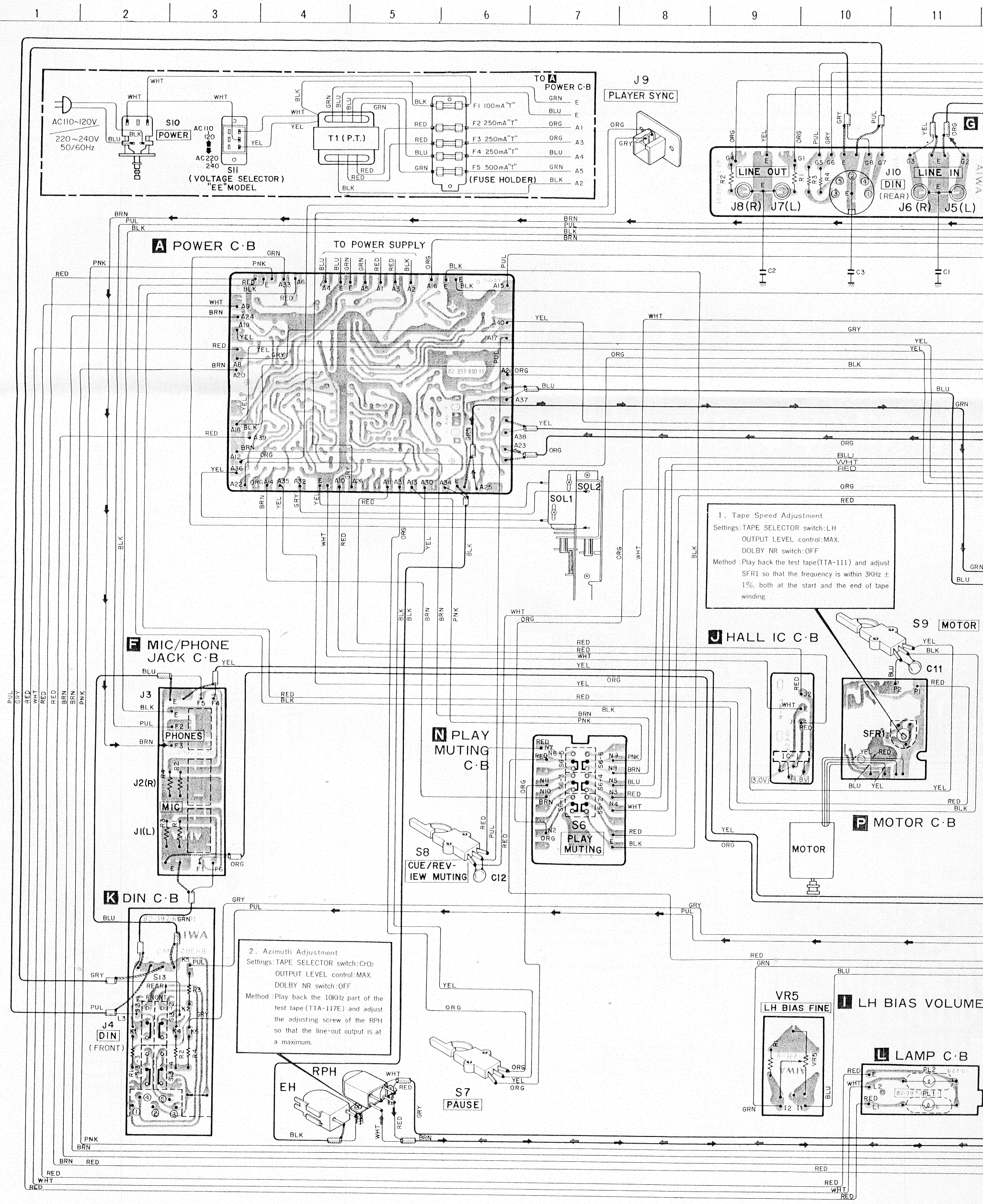
1) — B(+) power supply
2) ➡ Signal path
   ➡ Rec. path
3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals.
   An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
4) Resistors with no designation have a rated power of ¼W and a tolerance of ±5%.
5) Capacitors with no designation have a dielectric strength of less than 50WV.
6) Ceramic capacitor symbols:
   ⊣⊢ For temperature compensation (SL)
   ⊣⊢ High dielectric constant system (YY)
   ⊣⊢ High dielectric constant system (YP, YZ)
7) The only capacitor tolerances indicated are ±2% (G), ±5% (J) and ±10% (K).
8) Explanation of symbols
   (M) Mylar capacitor
   (S) Styrol capacitor
   (T) Tantalum capacitor
   (LL) Low-leakage capacitor
   (PP) Polypropylene film capacitor
   (LN) Low-noise resistor
9) Switches are set to the following positions

S1–1~10	REC/PB	(PB)
S2–1~2	INPUT SELECTOR	(LINE)
S3–1~6	DOLBY NR	(OFF)
S4–1~4	TAPE SELECTOR–BIAS	(LH)
S5–1~4	TAPE SELECTOR–EQ	(LH)
S6–1~6	PLAY MUTING	(STOP)
S7	PAUSE	(OFF)
S8	CUE/REVIEW MUTING	(OFF)
S9	MOTOR	(OFF)
S10	POWER	(OFF)
S11	VOLTAGE SELECTOR	
S12	DIN OUT	(FIX)
S13	DIN FRONT/REAR	(REAR)
S14	CrO_2 AUTO	(OFF)

This schematic diagram is subject to change without notice in the interests of improved performance.







NOTES (1) B(+) Pattern Others pattern (2) Signal path Rec. path (3) The voltage is the refere

9 10 11 12 13 14 15 16 17 18 19

G LINE JACK C·B

B MAIN C·B

S12 DIN OUT

J HALL IC C·B

P MOTOR C·B

E BIAS/EQ SWITCH C·B

H REC VOLUME C·B

M LED C·B

I LH BIAS VOLUME C·B

L LAMP C·B

S9 MOTOR

S14 CrO_2 AUTO

PL2 RECORD

PL1 DOLBY NR

PL1 CASSETTE LAMP

LM1 LEFT LEVEL

LM2 RIGHT LEVEL

VR5 LH BIAS FINE

VR1,2 REC LEVEL

J8(R) J7(L) J10 DIN (REAR) J6(R) J5(L)

LINE OUT LINE IN

1. Tape Speed Adjustment

Settings: TAPE SELECTOR switch: LH
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF

Method: Play back the test tape (TTA-111) and adjust SFR1 so that the frequency is within 3KHz ± 1%, both at the start and the end of tape winding.

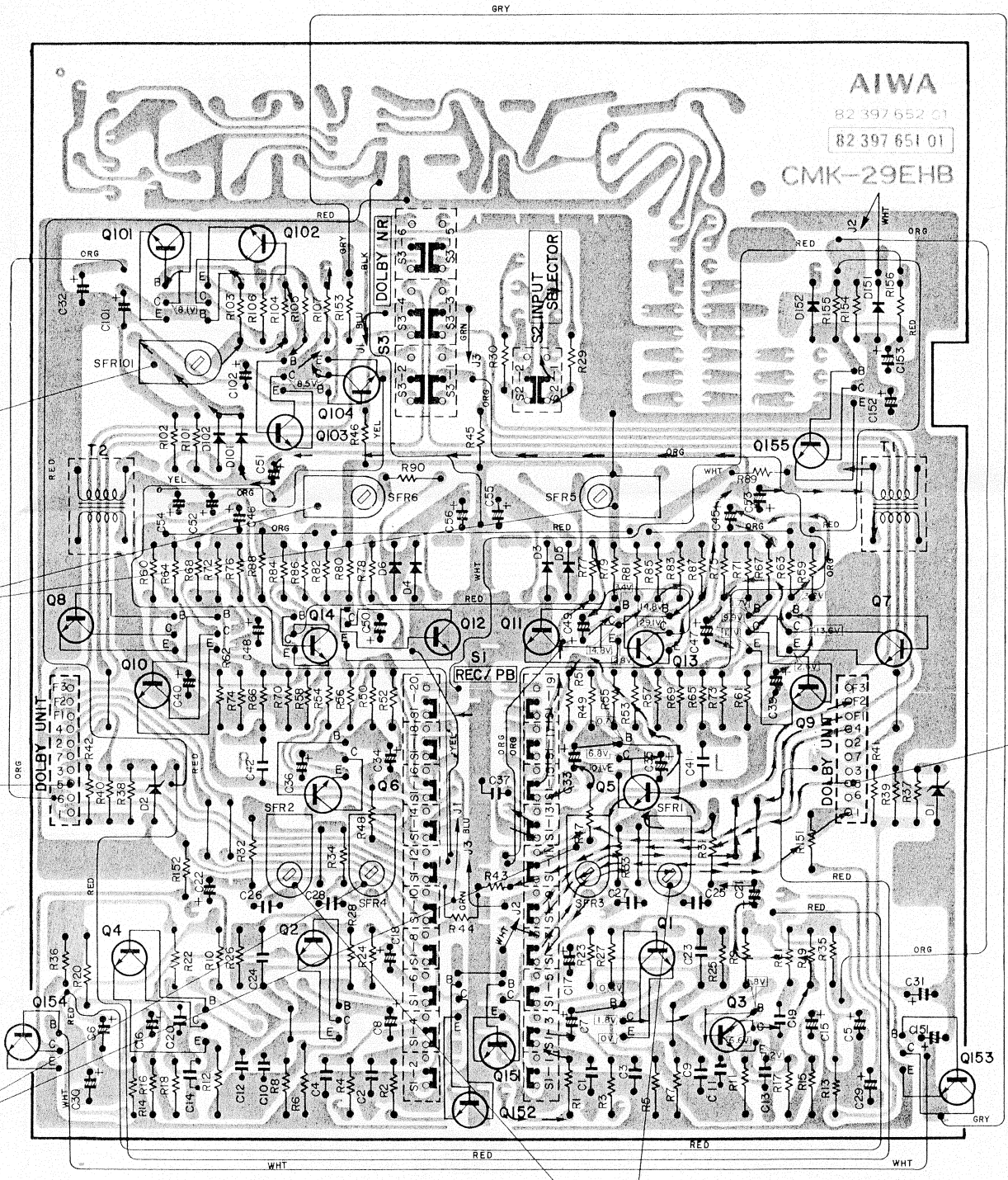
➡ Rec. path

(3) The voltage is the reference value measured with a tester (20K ohms/VDC) when there are no signals.

MODEL AD-6400EE,UK

WIRING-2

B MAIN C·B

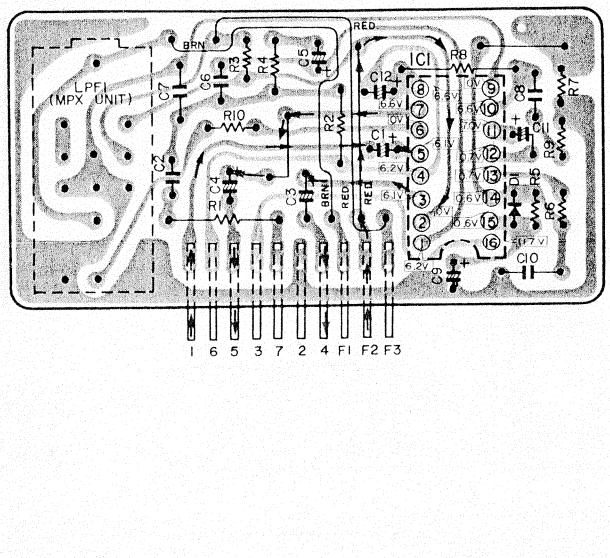


7. Peak Indicator Adjustment
Settings: Same as in the Level Meter Adjustment.
Method : Adjust SFR101 so that the yellow LED Lights up slightly when the recording input is increased by 2dB. Then confirm that the yellow LED Lights up completely when the recording input is increased by 3dB. Finally, confirm that the LED lights up when the recording input is increased by 7dB.

6. Level Meter Adjustment
Settings: INPUT SELECTOR switch: LINE
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Record inputs: 0dBm(=0.775V)
Method : Adjust the SFR5 and 6 so that the indicator of the level meter points to OVU by the 1KHz signal.
Rating : OVU±0.3dB

3. Playback Level Adjustment
Settings: TAPE SELECTOR switch: LH
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Method : While playing back the test tape(TTA-161), adjust SFR3 and SFR4 so that the voltage of TP1 and 2 is 580mV.
Rating : Dolby-out output(TP1,2): 580mV±0.2dB
Line-out output: 1.1V±0.05V

C D DOLBY C·B



4. Playback Frequency Characteristic Adjustment
Settings: TAPE SELECTOR switch: CrO_2
OUTPUT LEVEL control : MAX.
DOLBY NR switch: OFF
Methed : While playing back the 1KHz and 10KHz portions of the test tape(TTA-117E), adjust SFR1 and 2 so that the line-out output of the 10KHz portions is ±0.5dB higher than that of the 1KHz portion.
Rating : Level of 10KHz as compared with 1KHz: 0dB +0.5dB

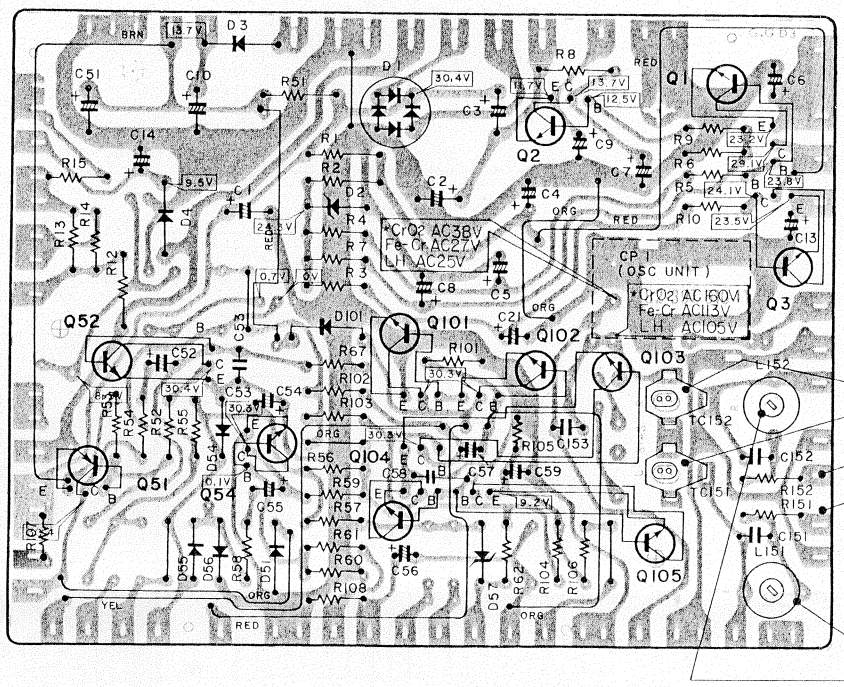
NOTES:
- For adjustments of playback, see 1 ~ 4
- For adjustments of Recording, see 5 ~ 7
- For adjustments of Recording and playback, see 8 ~ 16

15. Fe-Cr
Settings: TAP
INPU
OUT
DOL
Rec
Tes
Method : Adj
Rec

NOTES (1) B(+) Pattern Others pattern (2) ➡ Signal path ➡ Rec. path (3) The voltage is the refer

9 10 11 12 13 14 15 16 17 18 19

A POWER C·B



8. Fe-Cr Bias Adjustment
Settings: TAPE SELECTOR switch: Fe-Cr
INPUT SELECTOR switch: LINE
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Record inputs: OVU—20dB
Test tape: CS-30
Method: Record and playback the 500Hz and 5KHz signals. While repeating the recording and playback, adjust TC151 and 152 so that the line-out output of the 5KHz portion is flat as compared with that of the 500Hz portion.
Rating: Level of 5KHz as compared with 500Hz: 0dB ± 0.5dB

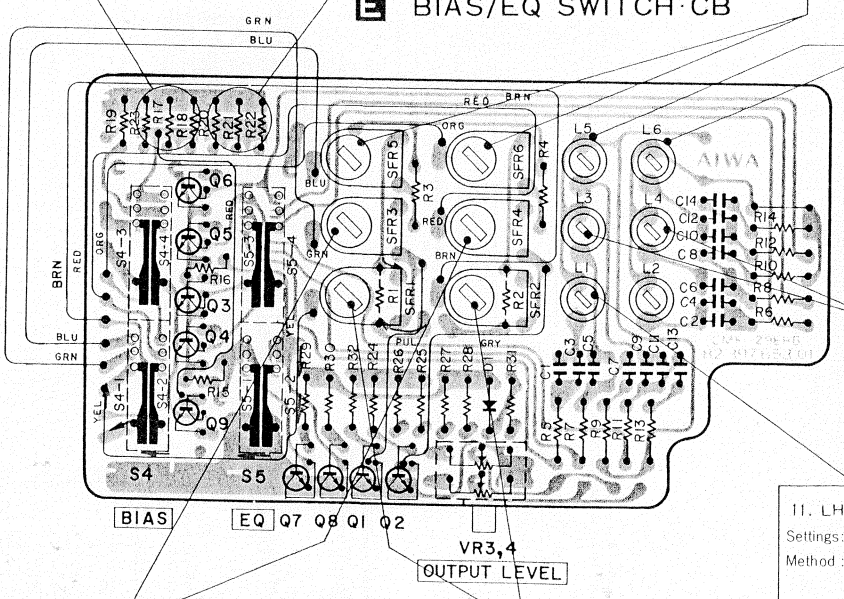
5. Bias Trap Adjustment
Settings: TAPE SELECTOR switch: CrO_2
OUTPUT LEVEL control: MAX.
RECORD LEVEL control: MAX.
Method: Set the unit to the recording mode and adjust L151 and 152 so that the voltage of TP1 and 2 is at a minimum.
Rating: Bias leakage (TP1,2): less than 1V.

14. CrO_2 Rec./Pb. Sensitivity Adjustment
Settings: TAPE SELECTOR switch: CrO_2
INPUT SELECTOR switch: LINE
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Record inputs: OVU
Test tape: CS-20
Method: Record and playback the 1KHz signal. While repeating the recording and playback, adjust SFR5 and 6 so that the line-out output is 0.775V ± 0.25dB

12. CrO_2 Bias Adjustment
Settings: TAPE SELECTOR switch: CrO_2
INPUT SELECTOR switch: LINE
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Record inputs: OVU-20dB
Test tape: CS-20
Method: Adjust R17,18 and 23 the same as in the Fe-Cr Bias Adjustment.
Rating: Level of 5KHz as compared with 500Hz: 0dB ± 0.5dB

10. LH Bias Adjustment
Settings: TAPE SELECTOR switch: LH
LH BIAS FINE control: Click position
INPUT SELECTOR switch: LINE
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Record inputs: OVU-20dB
Test tape: CS-10
Method: Adjust R20,21 and 22 the same as in the Fe-Cr Bias Adjustment.
Rating: Level of 5KHz as compared with 500Hz: 0.5dB ± 0.5dB

E BIAS/EQ SWITCH·CB



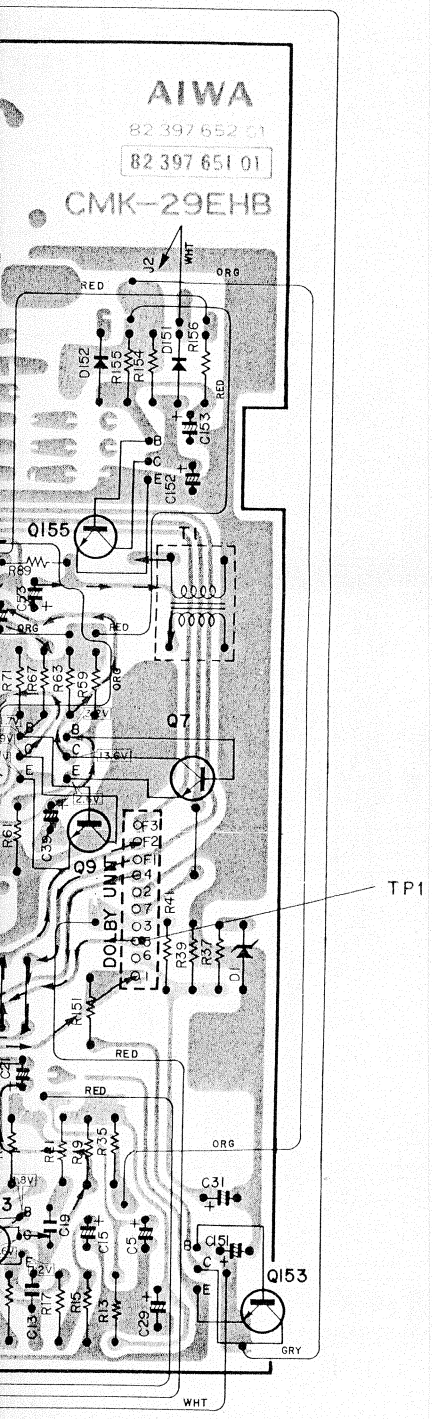
13. CrO_2 Recording Equalizer Adjustment
Settings: Same as in the CrO_2 Bias Adjustment
Method: Adjust L5 and 6 the same as in the Fe-Cr Recording Equalizer Adjustment
Reting: Level of 13KHz as compared with 500Hz: 0dB $^{+0.5}_{-1.0}$dB

9. Fe-Cr Recording Equalizer Adjustment
Settings: Same as in the Fe-Cr Bias Adjustment.
Method: Record and playback the 500Hz and 13KHz signals. While repeating the recording and playback, adjust L3 and 4 so that the line-out output of the 13KHz portion is flat as compared with that of the 500Hz portion.
Rating: Level of 13KHz as compared with 500Hz: 0dB $^{+0.5}_{-1.0}$dB

11. LH Recording Equalizer Adjustment
Settings: Same as in the LH Bias Adjustment
Method: Adjust L1 and 2 the same as in the Fe-Cr Recording Equalizer Adjustment.
Rating: Level of 13KHz as compared with 500Hz: 0dB $^{+1.0}_{-2.0}$dB

15. Fe-Cr Rec./Pb. Sensitivity Adjustment
Settings: TAPE SELECTOR switch: Fe-Cr
INPUT SELECTOR switch: LINE
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Record inputs: OVU
Test tape: CS-30
Method: Adjust SFR3 and 4 the same as in the CrO_2 Rec./Pb. Sensitivity Adjustment.

16. LH Rec./Pb. Sensitivity Adjustment
Settings: TAPE SELECTOR switch: LH
INPUT SELECTOR switch: LINE
OUTPUT LEVEL control: MAX.
DOLBY NR switch: OFF
Record inputs: OVU
Test tape: CS-10
Method: Adjust SFR1 and 2 the same as in the CrO_2 Rec./Pb. Sensitivity Adjustment.



equency Characteristic
ECTOR switch: CrO_2
EVEL control : MAX.
switch: OFF
g back the 1KHz and 10KHz portest tape(TTA-117E), adjust SFR1
at the line-out output of the 10KHz
±0.5dB higher than that of the
n.
0KHz as compared with 1KHz: 0dB

nts of playback, see 1 ~ 4
nts of Recording, see 5 ~ 7
nts of Recording and playback, see 8 ~ 16

➡ Rec. path

(3) The voltage is the reference value measured with a tester (20K ohms/VDC) when there are no signals.

MODEL AD-6400EE,UK MODEL AD-6400EE,UK

ELECTRICAL MAIN PARTS

Symbol No.	Part No.	Description
≪POWER CIRCUIT BOARD SECTION≫		
PCB-A	82-397-610-11	Power circuit board
<POWER SECTION>		
Q1,2,3	89-313-647-01	Transistor, 2SC1364 (7)
D1	87-027-163-01	Bridge diode, 1B4B1
D2	87-027-212-01	Zener diode, RD24EC
D3,4	87-027-083-01	Diode, 1S1885
		<Resistors>
R1	87-029-014-01	22Ω 1/2W Fuse resistor
R8	87-029-016-01	22Ω 1/2W Fuse resistor
R2	87-029-027-01	470Ω 1/2W Fuse resistor
<BIAS OSC SECTION>		
CP1	82-372-658-01	Bias OSC unit
L151,152	82-371-644-01	Bias OSC coil, 22mH
TC151,152	87-011-079-01	Trimmer, 30pF
<AUTO STOP SECTION>		
Q51	89-206-052-01	Transistor, 2SB605 (L)
Q52,54	89-309-455-71	Transistor, 2SC945L (K, P, Q)
Q51	87-027-083-01	Diode, 1S1885
D54,55,56	87-027-097-01	Diode, 1S1555
D57	87-026-069-01	Zener diode, WZ-052
<TIMER START SECTION>		
Q101	89-405-712-01	Transistor, 2SC571 (L)
Q102,103,104 105	89-309-455-71	Transistor, 2SC945L (K, P, Q)
D101	87-027-083-01	Diode, 1S1885
≪MAIN CIRCUIT BOARD SECTION≫		
PCB-B	82-397-652-01	Main circuit board
<REC/PB SECTION>		
Q1,2	89-316-816-01	Transistor, 2SC1681 (BL)
Q3,4	89-312-222-01	Transistor, 2SC1222 (E)
Q5,6,7,8,9,10 11,12	89-309-456-71	Transistor, 2SC945L (K, P)
Q13,14	89-313-647-01	Transistor, 2SC1364 (7)
D1,2	87-027-122-01	Zener diode, 02Z6.2A
D3,4,5,6	88-051-060-01	Diode, 1N60 (FM)
T1,2	82-370-610-01	Matching transformer
S1	87-031-390-01	Slide switch (REC/PB)
S2,3	82-397-641-01	Push switch ass'y (B) (INPUT SELECTOR, DOLBY-NR)
SFR1,2,3,4	87-021-498-01	Semi-fixed resistor, 47kΩ-B
SFR5,6	87-021-502-01	Semi-fixed resistor, 3.3kΩ-B
		<Resistor>
R27,28	82-380-664-01	31.6kΩ 1/4W ±2%
		<Capacitors>
C21,22	87-015-329-01	0.33μF 50V LL
C7,8,17,18	87-015-246-01	4.7μF 25V LL
C15,16	87-015-200-01	10μF 16V Tantalum
C23,24	82-380-661-01	0.0039μF PP
<PEAK INDICATOR SECTION>		
Q101,103	89-309-455-61	Transistor, 2SC945L (P, Q)
Q102,104	89-309-456-71	Transistor, 2SC945L (K, P)
D101,102	88-051-060-01	Diode, 1N60 (FM)
SFR101	87-021-497-01	Semi-fixed resistor, 22kΩ-B

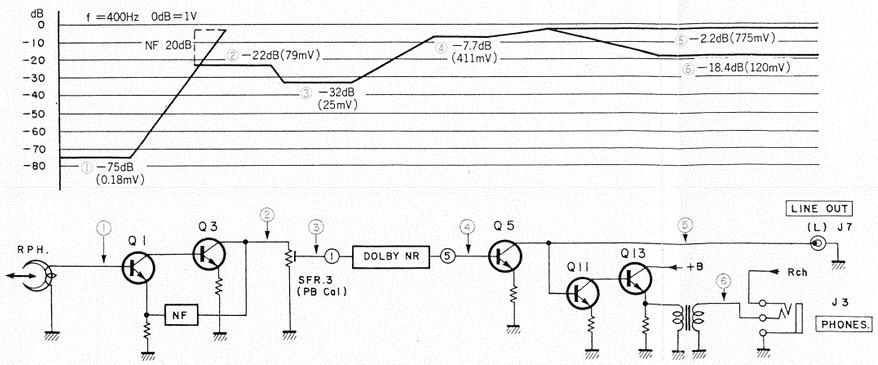
Symbol No.	Part No.	Description
<MUTING SECTION>		
Q151,152,153 154	89-402-275-01	Transistor, 2SD227 (V)
Q155	89-309-456-71	Transistor, 2SC945L (K, P)
D151	87-026-066-01	Diode, M8513A (O)
D152	88-052-188-11	Diode, 1S188 (FM)
≪DOLBY CIRCUIT BOARD SECTION≫		
PCB-C,D	82-385-650-11	Dolby circuit board
IC1	87-027-151-01	IC, NE545B
D1	88-051-060-01	Diode, 1N60 (FM)
LPF1	82-397-634-01	Low pass filter (MPX UNIT)
	87-032-640-01	Pin, 10p
		<Resistor>
R2	82-371-652-01	3.3kΩ ±1%
		<Capacitors>
C1	87-015-328-01	0.22μF 50V LL
C6	87-371-643-01	4700pF PP
C2	82-371-642-01	5600pF PP
C7	82-371-641-01	0.027μF PP
≪BIAS/EQ SWITCH CIRCUIT BOARD SECTION≫		
PCB-E	82-397-653-01	Bias/EQ switch circuit board
Q1~9	89-309-455-61	Transistor, 2SC945L (P, O)
D1	87-026-066-01	Diode, M8513A (O)
L1,2	82-385-636-01	Coil, 6.8mH
L3,4,5,6	82-385-634-01	Coil, 4.7mH
VR3,4	82-397-636-01	Volume 10kΩ-A (OUT PUT LEVEL)
S4,5	87-031-388-01	Lever switch (BIAS, EQ)
SFR1,2,3,4 5,6	87-021-498-01	Semi-fixed resistor, 47kΩ-B
≪MIC/PHONE JACK CIRCUIT BOARD SECTION≫		
PCB-F	82-397-605-01	MIC/PHONE JACK circuit board
J1,2,3	82-397-639-01	Jack ass'y (MIC, PHONES)
≪LINE JACK CIRCUIT BOARD SECTION≫		
PCB-G	82-397-662-01	LINE JACK circuit board
J5,6,7,8,10	82-385-678-11	JACK ass'y (LINE IN, LINE OUT, DIN-REAR)
≪REC VOLUME CIRCUIT BOARD SECTION≫		
PCB-H	82-397-607-01	REC volume circuit board
VR1,2	82-385-640-01	Volume, 50kΩ-A (REC LEVEL)
≪LH BIAS VOLUME CIRCUIT BOARD SECTION≫		
PCB-I	82-397-608-01	LH bias volume circuit board
VR5	82-397-637-01	Volume, 1kΩ-B (LH BIAS FINE)
≪HALL IC CIRCUIT BOARD SECTION≫		
PCB-J	82-397-623-01	Hall IC circuit board
IC1	87-027-160-01	Hall IC, DN835
≪DIN CIRCUIT BOARD SECTION≫		
PCB-K	82-397-654-01	DIN circuit board
J4	82-380-616-01	DIN socket (DIN-FRONT)
S13	82-380-610-01	DIN switch (FRONT/REAR)

Symbol No.	Part No.	Description
≪LAMP CIRCUIT BOARD SECTION≫		
PCB-L	82-397-622-01	Lamp circuit board
PL1,2	82-380-705-01	Lamp 8V 55mA (DOLBY-NR, RECORD)
≪LED CIRCUIT BOARD SECTION≫		
PCB-M	82-397-624-01	LED circuit board
D1	87-026-086-01	Light emitting diode (ORG)
D2	87-026-083-01	Light emitting diode (RED)
≪PLAY MUTING CIRCUIT BOARD SECTION≫		
PCB-N	82-397-609-01	Play muting circuit board
S6	87-031-239-01	Slide switch (PLAY MUTING)
≪FUSE CIRCUIT BOARD SECTION≫ = UK model only		
PCB-O	82-397-650-01	Fuse circuit board
F1	87-035-131-01	Fuse, 100mA "T"
	87-098-006-01	Fuse label, 100mA "T"
F2	87-035-183-01	Fuse, 50mA "T"
	87-098-003-01	Fuse label, 50mA "T"
	87-032-744-01	Fuse clamp
S11	87-031-343-01	Slide switch (VOLTAGE SELECTOR)
≪MISCELLANEOUS≫		
T1	82-397-629-01	Power transformer (EE model only)
T1	82-399-613-01	Power transformer (UK model only)
RPH	82-372-676-01	Rec/Pb head
EH	87-046-088-11	Erase head
M, PCB-P	82-397-643-01	Motor ass'y
PL1	82-397-646-01	Pilot lamp 8V 50mA (CASSETTE)
SOL1,2	82-397-633-01	Solenoid (AUTO STOP, TIMER START)

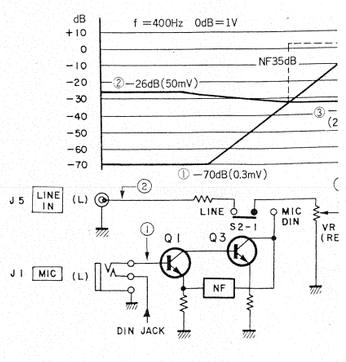
Symbol No.	Part No.	Description
LM1,2	82-399-602-01	Level meter (LEFT LEVEL, RIGHT LEVEL)
J9	87-032-849-01	Jack 2.5φ (PLAYER SYNC)
S7,8,9	87-031-362-01	Micro switch (PAUSE, CUE/REVIEW MUTING, MOTOR)
S10	87-031-408-01	Push switch (POWER)
S11	87-031-364-01	Slide switch (VOLTAGE SELECTOR) (EE model only)
S12	82-467-671-01	Slide switch (DIN OUT)
S14	87-031-377-01	Micro switch (CrO_2 AUTO)
F1	87-035-067-01	Fuse, 100mA "T" (EE model only)
	87-098-006-01	Fuse label, 100mA "T" (EE model only)
F2,3,4	87-035-144-01	Fuse, 250mA "T" (EE model only)
F3,4,5	87-035-145-01	Fuse, 250mA "T" (UK model only)
	87-098-010-01	Fuse label, 250mA "T"
F5	87-035-075-01	Fuse, 500mA "T" (EE model only)
	87-098-013-01	Fuse label, 500mA "T" (EE model only)
F6	87-035-134-01	Fuse, 500mA "T" (UK model only)
	87-098-013-01	Fuse label, 500mA "T" (UK model only)
	82-397-660-01	Fuse holder, 4P (UK model only)
	82-397-661-01	Fuse holder, 5P (EE model only)

LEVEL DIAGRAM

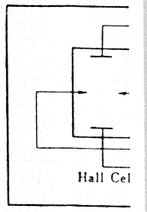
- **Playback**



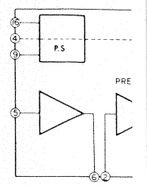
- **Recording**



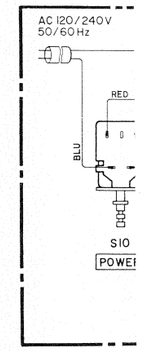
IC BLOCK



IC BLOCK DI



POWER CI

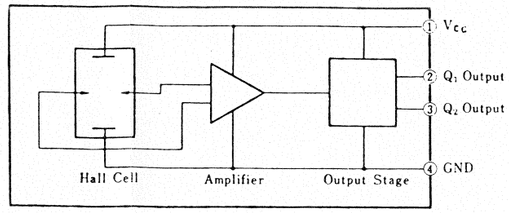


Symbol No.	Part No.	Description
≪MUTING SECTION≫		
Q151,152,153 154	89-402-275-01	Transistor, 2SD227 (V)
Q155	89-309-456-71	Transistor, 2SC945L (K, P)
D151	87-026-066-01	Diode, M8513A (O)
D152	88-052-188-11	Diode, 1S188 (FM)
≪DOLBY CIRCUIT BOARD SECTION≫		
PCB-C,D	82-385-650-11	Dolby circuit board
IC1	87-027-151-01	IC, NE545B
D1	88-051-060-01	Diode, 1N60 (FM)
LPF1	82-397-634-01	Low pass filter (MPX UNIT)
	87-032-640-01	Pin, 10p
		≪Resistor≫
R2	82-371-652-01	3.3kΩ ±1%
		≪Capacitors≫
C1	87-015-328-01	0.22μF 50V LL
C6	87-371-643-01	4700pF PP
C2	82-371-642-01	5600pF PP
C7	82-371-641-01	0.027μF PP
≪BIAS/EQ SWITCH CIRCUIT BOARD SECTION≫		
PCB-E	82-397-653-01	Bias/EQ switch circuit board
Q1~9	89-309-455-61	Transistor, 2SC945L (P, O)
D1	87-026-066-01	Diode, M8513A (O)
L1,2	82-385-636-01	Coil, 6.8mH
L3,4,5,6	82-385-634-01	Coil, 4.7mH
VR3,4	82-397-636-01	Volume 10kΩ-A (OUT PUT LEVEL)
S4,5	87-031-388-01	Lever switch (BIAS, EQ)
SFR1,2,3,4 5,6	87-021-498-01	Semi-fixed resistor, 47kΩ-B
≪MIC/PHONE JACK CIRCUIT BOARD SECTION≫		
PCB-F	82-397-605-01	MIC/PHONE JACK circuit board
J1,2,3	82-397-639-01	Jack ass'y (MIC, PHONES)
≪LINE JACK CIRCUIT BOARD SECTION≫		
PCB-G	82-397-662-01	LINE JACK circuit board
J5,6,7,8,10	82-385-678-11	JACK ass'y (LINE IN, LINE OUT, DIN-REAR)
≪REC VOLUME CIRCUIT BOARD SECTION≫		
PCB-H	82-397-607-01	REC volume circuit board
VR1,2	82-385-640-01	Volume, 50kΩ-A (REC LEVEL)
≪LH BIAS VOLUME CIRCUIT BOARD SECTION≫		
PCB-I	82-397-608-01	LH bias volume circuit board
VR5	82-397-637-01	Volume, 1kΩ-B (LH BIAS FINE)
≪HALL IC CIRCUIT BOARD SECTION≫		
PCB-J	82-397-623-01	Hall IC circuit board
IC1	87-027-160-01	Hall IC, DN835
≪DIN CIRCUIT BOARD SECTION≫		
PCB-K	82-397-654-01	DIN circuit board
J4	82-380-616-01	DIN socket (DIN-FRONT)
S13	82-380-610-01	DIN switch (FRONT/REAR)

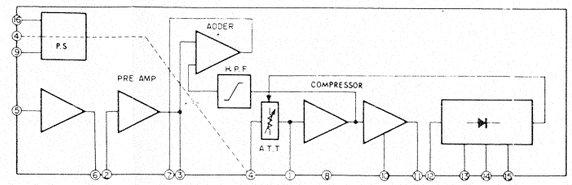
Symbol No.	Part No.	Description
≪LAMP CIRCUIT BOARD SECTION≫		
PCB-L	82-397-622-01	Lamp circuit board
PL1,2	82-380-705-01	Lamp 8V 55mA (DOLBY-NR, RECORD)
≪LED CIRCUIT BOARD SECTION≫		
PCB-M	82-397-624-01	LED circuit board
D1	87-026-086-01	Light emitting diode (ORG)
D2	87-026-083-01	Light emitting diode (RED)
≪PLAY MUTING CIRCUIT BOARD SECTION≫		
PCB-N	82-397-609-01	Play muting circuit board
S6	87-031-239-01	Slide switch (PLAY MUTING)
≪FUSE CIRCUIT BOARD SECTION≫ = UK model only		
PCB-O	82-397-650-01	Fuse circuit board
F1	87-035-131-01	Fuse, 100mA "T"
	87-098-006-01	Fuse label, 100mA "T"
F2	87-035-183-01	Fuse, 50mA "T"
	87-098-003-01	Fuse label, 50mA "T"
	87-032-744-01	Fuse clamp
S11	87-031-343-01	Slide switch (VOLTAGE SELECTOR)
≪MISCELLANEOUS≫		
T1	82-397-629-01	Power transformer (EE model only)
T1	82-399-613-01	Power transformer (UK model only)
RPH	82-372-676-01	Rec/Pb head
EH	87-046-088-11	Erase head
M, PCB-P	82-397-643-01	Motor ass'y
PL1	82-397-646-01	Pilot lamp 8V 50mA (CASSETTE)
SOL1,2	82-397-633-01	Solenoid (AUTO STOP, TIMER START)

Symbol No.	Part No.	Description
LM1,2	82-399-602-01	Level meter (LEFT LEVEL, RIGHT LEVEL)
J9	87-032-849-01	Jack 2.5φ (PLAYER SYNC)
S7,8,9	87-031-362-01	Micro switch (PAUSE, CUE/REVIEW MUTING, MOTOR)
S10	87-031-408-01	Push switch (POWER)
S11	87-031-364-01	Slide switch (VOLTAGE SELECTOR) (EE model only)
S12	82-467-671-01	Slide switch (DIN OUT)
S14	87-031-377-01	Micro switch (CrO_2 AUTO)
F1	87-035-067-01	Fuse, 100mA "T" (EE model only)
	87-098-006-01	Fuse label, 100mA "T" (EE model only)
F2,3,4	87-035-144-01	Fuse, 250mA "T" (EE model only)
F3,4,5	87-035-145-01	Fuse, 250mA "T" (UK model only)
	87-098-010-01	Fuse label, 250mA "T"
F5	87-035-075-01	Fuse, 500mA "T" (EE model only)
	87-098-013-01	Fuse label, 500mA "T" (EE model only)
F6	87-035-134-01	Fuse, 500mA "T" (UK model only)
	87-098-013-01	Fuse label, 500mA "T" (UK model only)
	82-397-660-01	Fuse holder, 4P (UK model only)
	82-397-661-01	Fuse holder, 5P (EE model only)

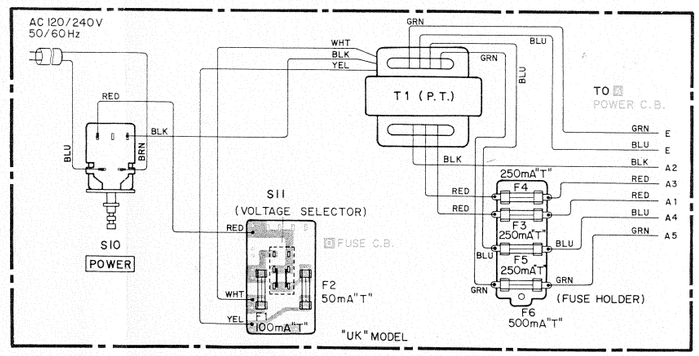
IC BLOCK DIAGRAM DN835



IC BLOCK DIAGRAM NE545B

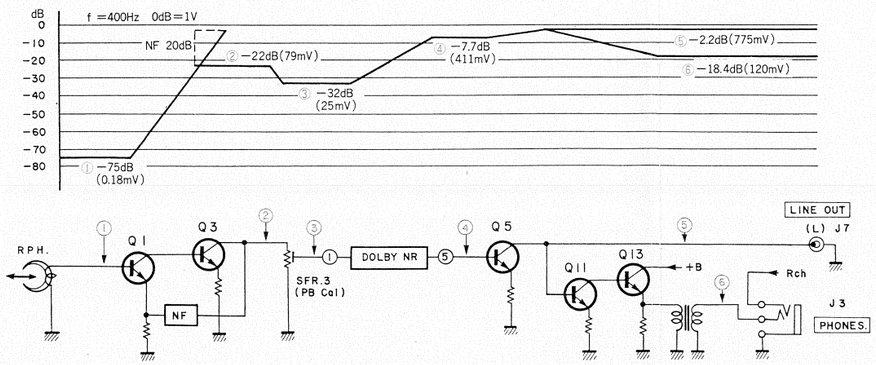


POWER CIRCUIT BOARD



LEVEL DIAGRAM

- **Playback**



- **Recording**